

diator, of one, two or more closed elastic metallic chambers or vessels filled with air or other gaseous fluid, in combination with the screw adjusting arrangement described and represented, whereby the instrument or apparatus may be so adjusted that the expansion of the air or other elastic fluid in the chamber or chambers shall at the required temperature close an electric circuit, combined with the said instrument or apparatus, and thereby put into operation an electro magnet, which effects the ringing of a bell or operates any other signal, substantially as hereinbefore described and illustrated in the accompanying drawings. 2nd. The employment, in a fire alarm or fire and heat indicator, of a finger or pointer on the adjusting screw of the instrument or apparatus, in conjunction with a graduated scale or dial, by the position of which finger or pointer upon the said dial, the instrument may be so adjusted that it will be put into operation and an alarm given or signal operated when the temperature of the room or place in which the instrument is fixed has risen to the height indicated on the dial by the finger or pointer, substantially as hereinbefore described and illustrated in the accompanying drawing.

No. 35,183. Fanning Mill Shoe.

(*Sabots pour tarrares-cribleurs.*)

Robert Caslick and Edward J. Clark, both of Mount Brydges, Ontario, Canada, 11th October, 1890: 5 years.

Claim.—1st. As a new article of manufacture, a fanning mill or grain separator shoe, formed with a beater or beaters, substantially as shown and described, and for the purpose specified. 2nd. The beater shaft B, the arms H, nobbs N, the cover I, the double crank G, the cross bar E, or other suitable support, and the shoe frame F, provided with the cross bar A, and the screens S', and S'', substantially as shown and described, and for the purpose specified.

No. 35,184. Dental Elevator. (*Arrache-chicot.*)

Daniel Siddall, The Dalles, Oregon, U.S.A., 11th October, 1890: 5 years.

Claim.—1st. A dental elevator or stump-extractor, consisting in a shank formed with a laterally-extending projection at one end, one vertical face or the tooth side of the projection being flat, and the opposite or gum side being rounded from its inner or shank end to its outer or free end, to form a fulcrum-point, the edge at which said flat or rounded sides meet or converge being serrated or toothed, substantially as set forth. 2nd. A dental elevator or stump-extractor, comprising a shank having at one end a projection extending laterally beyond one side edge thereof, and formed with a flat vertical face on the tooth side, and rounded on its opposite or gum side from its inner or shank end to its outer or free edge, to form a fulcrum-point, the edge at which the flat and rounded sides meet or converge being convex, and serrated or toothed, substantially as set forth.

No. 35,185. Mechanical Power.

(*Moteur mécanique.*)

William Riley Hunter, Afton, Iowa, U.S.A., 11th October, 1890: 5 years.

Claim.—1st. In a mechanical motor, the combination, with the frame-work having a rod extending longitudinally thereof at the rear, a sleeve mounted on said rod, and treadles pivoted on said sleeve, of a driving shaft, a sleeve longitudinally adjustable thereon, clutches turning with said sleeve, and ropes connecting said treadles with said clutches, substantially as described. 2nd. In a mechanical motor, the combination, with the frame work having a rod extending longitudinally thereof at the rear, a sleeve mounted on said rod, a set screw in said sleeve, uprights rising from said sleeve and connected at their upper ends by a slotted plate, a thumb-nut securing said plate adjustably to the head of the frame work, a seat carried by said upright, and levers pivoted on said sleeve, of a main shaft, clutches thereon movable longitudinally thereof, and ropes connecting said treadles with said clutches, substantially as described. 3rd. In a mechanical motor, the combination, with the frame work having a rod extending longitudinally thereof at the rear, a sleeve mounted on said rod, a set screw in said sleeve, uprights rising from the sleeve and adjustably connected at their upper ends to the head of the frame work, a block pivoted between said uprights, a bar pivoted to said block and carrying a seat, and a foot piece supporting said seat, of levers pivoted on said sleeve, a main driving shaft, longitudinally movable clutches thereon, and ropes connecting said levers with the clutches, substantially as described. 4th. In a mechanical motor, the combination, with the main driving in said sleeve having a longitudinal groove, the sleeve thereon, a set screw sleeve, and ropes running over said clutches, of levers connected to for moving the pivotal supports of the levers in unison with the movement of the sleeve on the main shaft, as and for the purpose set forth. 5th. The herein described clutch, the same comprising two cup-shaped heads mounted upon an axle, a ring between them, having internal ratchet teeth, bolts connecting said parts, a lug keyed to said axle, a pawl pivoted to said lug, and provided with a hole through its body parallel with the axle, a spring in said hole, and heads at the ends of said spring, pressed outwardly against the inner faces of said cup-shaped heads, the whole operating substantially as described.

No. 35,186. Tire for Vehicle Wheels.

(*Bandage pour roues de voiture.*)

Howard Malcolm Du Bois, Philadelphia, Pennsylvania, U.S.A., 11th October, 1890: 5 years.

Claim.—1st. A vehicle wheel, having a channeled plate secured to the felloes, a tire, and an elastic cushion between said plate and

tire, the tire being upset and all parts operating, substantially as described. 2nd. A vehicle wheel, having a channeled plate, a tire, and an elastic cushion between said plate and tire, said tire having a central tongue which enters a groove in the cushion, the tire being upset, substantially as described. 3rd. A vehicle wheel, having a channeled plate, a tire, and an elastic cushion between said plate and tire, said tire having a tongue which enters the cushion, and flanges which embrace the same, the tire being upset, substantially as described. 4th. A vehicle wheel, having a channeled plate, an elastic cushion therein, and a surrounding tire, the latter being provided with a semi-cylindrical tongue which enters a semi-cylindrical groove in said cushion, and flanges which embrace the sides of the same, said tire with its tongue and flanges being upset, the parts being combined substantially as described.

No. 35,187. Apparatus for Extracting Bolts, Nails, Spikes, etc. (*Appareil pour arracher les clous, boulons, chevilles, etc.*)

Robert Hannah, Stayner, Ontario, Canada, 11th October, 1890: 5 years.

Claim.—The combination of lever A, with raised thread D, thereon, the loop B, attached on pivots on C, and the nut C, as and for the purpose hereinbefore set forth.

No. 35,188. Stretcher for Pants.

(*Appareil pour étirer les pantalons.*)

John Draper, Whitby, Ontario, Canada, 11th October, 1890: 5 years.

Claim.—1st. As an improved pants-stretcher, a pair of bars connected together by toggle-jointed links, in combination with a rod pivoted on the joints of the links, substantially as and for the purpose specified. 2nd. A pair of bars A, connected together by toggle-jointed links formed by plates B, pivoted at C, and connected together by the bolts C, and one pair of them having horns E, formed on them, as described, in combination with the rod D, pivoted on the bolt C, arranged to operate the bars A, substantially as and for the purpose specified.

No. 35,189. Catch for File Cabinets.

(*Crochet pour serre-papiers de buffet.*)

The Firm of M. Ohmer's Sons, (assignees of Wilfred Ignatius Ohmer), all of Dayton, Ohio, U. S. A., 11th October, 1890: 5 years.

Claim.—1st. In a file cabinet, the combination, with a sliding door and an adjacent portion of the case, of a gravity pawl, having a downward extension, and a projecting spur formed in one piece, and pivoted in the said door so as to engage the said adjacent portion, and support the said door. 2nd. In a file cabinet, the combination, with a sliding door, and an adjacent portion of the said case, of a pivoted gravity pawl having a downward extension to bear upon the said adjacent portion when raised by a spur that normally occupies an elevated position on the said pawl, and means to secure said pawl in its pivotal position in said door. 3rd. In a file cabinet, the combination, with a sliding door, and an adjacent portion of the case, of a frame adapted to hold a card, and having a lift formed integrally thereon, and also having a slot in the frame near the said lift, and a gravity pawl in one piece, pivoted in the said slot, and adapted to engage said portion of the case and support the said door. 4th. In a file cabinet, the combination, with a sliding door, and a frame adapted to hold and expose a card, and having a lift formed integrally thereon, and also having ears, a gravity pawl pivoted between the said ears, and having a downward extension to support the door, and an upward spur projecting outside of the frame to manipulate said pawl. 5th. In a catch, the combination, with a frame adapted to hold and expose a card, and having lugs to form pivot supports, of a pawl pivoted between said lugs, and having a gravitating end to engage a fixed object, and a normally elevated end adapted to be manipulated by the hand. 6th. As a new article of manufacture, a lift for doors consisting of a single piece of metal provided with an index-display opening, and a pawl pivoted thereto.

No. 35,190. Cabinet. (*Buffet.*)

The Firm of M. Ohmer's Sons, (assignees of Wilfred Ignatius Ohmer), all of Dayton, Ohio, U.S.A., 11th October, 1890: 5 years.

Claim.—1st. A cabinet, having its upright portions provided with a series of supports or rests, and vertically moving doors or covers mounted between said portions, and adapted to engage the said portions or rests. 2nd. In a cabinet, the combination, with the upright portions thereof having a series of supports or rests at intervals, of vertically movable doors or covers mounted between said portions, and adapted to be moved upon and from said supports or rests. 3rd. In a cabinet, the combination, with the upright portions thereof, and shelves between the said portions, of interior rests or supports, and vertically movable doors or covers mounted between the upright portions, and adapted to be moved from and upon the said rests or supports. 4th. In a cabinet, the combination, with the upright portions thereof, of grooves formed with rests or supports, and vertically sliding doors adapted to engage the said rests or supports. 5th. In a cabinet, the combination, with the upright portions thereof, of vertical grooves having one of their sides cut away to form rests or supports, and vertically sliding doors moving in said grooves, and adapted to engage said rests. 6th. In a cabinet, the combination, with the upright portions of a series of superincumbent vertically movable doors mounted between the same, and having beveled portions adapted to prevent one door dropping back or in front of those above or below it.